

4. (Amended) The method as claimed in claim 1, wherein said carbohydrate is rice.

5. (Amended) The method as claimed in claim 4, further comprising the steps of husking, cocking, and sterilizing said rice before adding to said medium.

8. (Amended) The method as claimed in claim 7, wherein the culturing comprises:

(1) inoculating said filamentous fungi from a stock culture to a new agar plate and incubating in an incubator for about 5 to 7 days;

(2) washing spores and mycelia of the filamentous fungi grown on said plate with sterile water; and

(3) cultivating for about 36 to 48 hours said spores and mycelia in a medium comprising a full-grain particle solid substrate by shaking, to form a culture.

12. (Amended) The method as claimed in claim 11, wherein the medium of the batch comprises a nitrogen source and a full-grain particle solid substrate.

13. (Amended) A method for cultivation of *Monascus* species by using a full-grain particle solid substrate comprising the steps of:

(a) preparing a medium comprising a full-grain particle solid grain substrate; and

(b) inoculating said medium with said *Monascus* species in a bioreactor to carry out fermentation wherein the mycelia of said *Monascus* species are attached to said full-grain particle solid grain substrate.

14. (Amended) The method as claimed in claim 13, further comprising the steps of husking, cocking, and sterilizing said full-grain particle solid grain before adding to said medium.

16. (Amended) The method as claimed in claim 15, wherein the culturing comprises:

- (1) inoculating said *Monascus* species from a stock culture to a new agar plate and incubating in an incubator for about 5 to 7 days;
- (2) washing spores and mycelia of said *Monascus* species grown on said plate with sterile water; and
- (3) cultivating for about 36 to 48 hours said spores and mycelia in a medium comprising a full-grain particle solid substrate by shaking, to form a culture.

20. (Amended) The method as claimed in claim 19, wherein the medium of the batch comprises a nitrogen source and a full-grain particle solid grain substrate.

21. (Amended) A method for producing metabolites from the cultivation of *Monascus* species by using a full-grain particle solid grain substrate comprising the steps of:
(a) preparing a medium comprising a full-grain particle solid grain substrate; and
(b) inoculating said medium with said *Monascus* species in a bioreactor to carry out fermentation wherein the mycelia of said *Monascus* species are attached to said full-grain particle solid substrate.

22. (Amended) The method as claimed in claim 21, further comprising the steps of husking, cooking, and sterilizing said full-grain particle solid grain before adding to said medium.

24. (Amended) The method as claimed in claim 23, wherein the culturing comprises:

- (1) inoculating said *Monascus* species from a stock culture to a new agar plate and incubating in an incubator for about 5 to 7 days;
- (2) washing spores and mycelia of said *Monascus* species grown on said plate with sterile water; and
- (3) cultivating for about 36 to 48 hours said spores and mycelia in a medium comprising a full-grain particle solid grain substrate by shaking, to form a culture.

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28. (Amended) The method as claimed in claim 27, wherein the medium of the batch comprises a nitrogen source and a full-grain particle solid grain substrate.--

Add claims 29-31.

29. The method as claimed in claim 1, wherein the solid substrate is rice.

30. The method as claimed in claim 13, wherein the solid grain substrate is rice.

31. The method as claimed in claim 21, wherein the solid grain substrate is rice.